

EXHIBIT C

In the Matter of:

FTC, et al. v. Quincy Bioscience Holding, et al.

October 20, 2021

David Katz, M.D., MPH - Confidential

Condensed Transcript with Word Index



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1	UNITED STATES DISTRICT COURT	1 (Appearances continued.)
2	SOUTHERN DISTRICT OF NEW YORK	2
3		3 ON BEHALF OF CORPORATE DEFENDANTS:
4	FEDERAL TRADE COMMISSION and)	4 GEOFFREY W. CASTELLO, ESQUIRE
5	THE PEOPLE OF THE STATE OF)	5 JACLYN M. METZINGER, ESQUIRE
6	NEW YORK, BY LETITIA JAMES,) Case No.	6 GLENN GRAHAM, ESQUIRE
7	ATTORNEY GENERAL OF THE STATE) 1:17-cv-00124-LLS	7 CAITLIN R. HICKEY, ESQUIRE
8	OF NEW YORK,)	8 Kelley Drye & Warren, LLP
9	Plaintiffs,)	9 101 Park Avenue
10	vs.)	10 New York, New York 10178
11	QUINCY BIOSCIENCE HOLDING)	11 (212) 808-7800
12	COMPANY, INC., a corporation,)	12 gcastello@kelleydrye.com
13	et al.,)	13
14	Defendants.)	14 ON BEHALF OF DEFENDANT UNDERWOOD:
15		15 MICHAEL B. de LEEUW, ESQUIRE
16	CONFIDENTIAL - ATTORNEYS' EYES ONLY	16 TAMAR S. WISE, ESQUIRE
17		17 Cozen O'Connor
18	Wednesday, October 20, 2021, Via Zoom Videoconference	18 45 Broadway Atrium
19		19 Suite 1600
20	The above-entitled matter came on for	20 New York, New York 10006
21	deposition, pursuant to notice, at 9:30 a.m., for the	21 (212) 908-1331
22	testimony of:	22 mdeleeuw@cozen.com
23	DAVID KATZ, M.D., MPH	23
24		24 ALSO PRESENT:
25	Reported by: Deborah Wehr, RPR	25 ERIC VAVRASEK, VIDEOGRAPHER
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25

1 **nutraceuticals and evidence-based integrative medicine**
 2 **practice. Can you give me examples of some of the**
 3 **nutraceuticals that you most widely used during the**
 4 **15 years that you were at the Integrative Medicine**
 5 **Center?**

6 A. These were highly personalized to address
 7 individual patient concerns. So all I can do to be
 8 efficient here would offer a representative list, but
 9 curcumin was routinely used as an anti-inflammatory.
 10 Concentrated omega 3s were used as anti-inflammatories
 11 and to ameliorate autoimmune disease. Glycyrrhiza was
 12 routinely used as a slight stimulant for blood
 13 pressure, some use in people with something called
 14 orthostatic hypotension. A number of nutraceuticals
 15 and botanicals were used to facilitate sleep and
 16 alleviate anxiety. Among those we made use of most
 17 routinely was L-theanine which is a modified amino
 18 acid. Echinacea was used sometimes as an immune
 19 stimulant to help people who had frequently recurring
 20 viral infections. Lysine was used as a suppressant for
 21 recurrent herpes simplex. Coenzyme Q10 was used
 22 routinely for support of cardiac function. I can keep
 23 going, but a wide array of personally directed
 24 nutraceuticals often in combination with one another,
 25 often in combination with pharmacotherapy and other

26

1 modalities.

2 **Q. Were any of the nutraceuticals that you used at**
 3 **the Integrative Medicine Center intended for memory or**
 4 **cognitive impairment?**

5 A. Probably so. Certainly there were people who
 6 were interested in enhancing cognition and asked
 7 questions about availability of products to help with
 8 that. So in the mix was the use of various things to
 9 support cognitive function, although generally, the
 10 focus there was on overall aspects of health that
 11 potentially contributed to brain function. So
 12 circulation, for example. And the use of
 13 nutraceuticals to support cognition would sometimes be
 14 what we might call indirect. So by addressing enhanced
 15 circulatory health, you are enhancing the function of
 16 all body organs, brain included.

17 **Q. Can you give me a couple of examples of**
 18 **nutraceuticals that you would have recommended for**
 19 **memory or cognitive improvement during this time?**

20 MR. CASTELLO: Objection.

21 THE WITNESS: You are asking what I would have
 22 recommended and you noted in your introduction that
 23 this was team care. So very often the specific
 24 recommendations for nutraceuticals came from
 25 naturopathic colleagues seeing the same patient at the

27

1 same time. As the senior physician, I needed to
 2 approve all such recommendations. We essentially
 3 managed patient care jointly, and I signed off on all
 4 the cases.

5 So examples would include some of the compounds
 6 I already mentioned. Omega 3 is in particular one of
 7 the prevalent, omega 3 fatty acids, docosahexaenoic
 8 acid is concentrated in the brain as associated with
 9 both mood stability and cognitive function. We used
 10 that routinely. B complex is associated with neuronal
 11 activity. So B6, B12 and sometimes the full suite of B
 12 vitamins were used. Arginine is an amino acid that is
 13 a precursor to nitric oxide which facilitates
 14 vasodilation, enhances blood flow. That was in the mix
 15 and a range of many others.

16 BY MS. SOBERATS:

17 **Q. Thank you. It is my understanding that the**
 18 **Integrative Medicine Center ceased operations in**
 19 **November of 2014; is that correct?**

20 A. I recall it being approximately 2015, but
 21 November 2014 certainly wouldn't be far wrong.

22 **Q. And why did it close?**

23 A. The cost of this care model was very high, and
 24 the hospital essentially was pushing for a more
 25 profitable model of care. Seeing very difficult,

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1 challenging patients who more often than not have been
 2 everywhere, tried everything, still needed help in a
 3 team care model was obviously not compatible with the
 4 prevailing reimbursement for medical care in the United
 5 States. We were often left to bill patients out of
 6 pocket, but we wanted to help patients who really
 7 couldn't afford this model of care. So historically,
 8 the Integrative Medicine Center lost money for the
 9 hospital. So they were tired of carrying the economic
 10 burden. They no longer had the time, because my career
 11 was shifting more toward aspects of public health, to
 12 devote to trying to create new means of making the
 13 Integrative Medicine Center more profitable. So we
 14 agreed that it had run its course after the better part
 15 of 15 years.

16 **Q. Dr. Katz, have you obtained a degree in**
 17 **statistics?**

18 A. No.

19 **Q. Have you completed any coursework or training**
 20 **in statistics?**

21 A. Yes.

22 **Q. Can you describe that for me?**

23 A. A master's in public health involves fairly
 24 extensive training in biostatistics. In my case, I
 25 focused especially on statistical elements useful for

29

me in the clinical research career. I was trained in SAS programming language and trained in routine methods of biostatistics and actually went on to become the course director in biostatistics for Yale medical students for roughly a decade and have coauthored now five editions of a textbook on epidemiology, biostatistics, preventive medicine in public health.

Q. You mentioned you were the course director of biostatistics at the Yale University School of Medicine. Do you actually -- did you actually teach biostatistics courses while you were at Yale?

A. I don't understand the question.

Q. Did you teach biostatistics courses while you were at the Yale School of Medicine?

A. I'm sorry, I don't understand the question. I taught biostatistics at the Yale School of medicine. But you mean while I was a student?

Q. No, no, you have answered my question. I understand your answer. Did you teach seemingly unrelated regressions in that class?

A. No.

Q. And were you -- did you cover seemingly unrelated regressions while you were undergoing your biostatistics training as part of your master's of public health program?

30

A. I don't recall ever encountering that method at that time.

Q. Do you have any academic appointments at Yale currently?

A. No.

Q. In what year was your last academic appointment at the Yale School of Medicine?

A. I stepped down -- the final position I held was director of the Yale University Prevention Research Center, and I stepped down in 2019 to run my own company.

Q. Do you have any appointments at Yale currently?

A. No.

Q. And were you ever a full professor at Yale?

A. No.

Q. Have you obtained a degree in economics?

A. No.

Q. Have you obtained any coursework or training in econometrics?

A. Coursework, it's possible. I did take economics as an undergraduate, and that may have figured in the content, but to be honest, it was a very long time ago.

Q. Do you have a law degree?

A. No.

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Q. Have you obtained a degree in biochemistry?

A. No.

Q. Did you complete any coursework or training in biochemistry?

A. Yes.

Q. Can you describe that for me.

A. Biochemistry is a requirement in medical school.

Q. How many semesters of biochemistry did you obtain during medical school?

A. I don't recall.

Q. Outside of medical school, have you completed any coursework or training in biochemistry?

A. Chemistry per se, which included some biochemistry, was a premedical requirement as well.

Q. And you --

A. In my case --

Q. You would have fulfilled that in your undergraduate studies?

A. I was going to say in my case, I think I fulfilled it in an AP course in high school.

Q. Okay. What specific training do you have in the field of memory or cognition?

A. The training that any medical student and internal medicine trainee would receive, a general

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understanding of neuroanatomy, neurophysiology, the anatomy of the brain, the mechanisms of short-term and long-term memory, pathophysiology that can impair those.

Q. Do you belong to any professional organizations in the field of memory or cognition?

A. Not per se.

Q. Do you belong to any professional organizations in the field of statistics?

A. Again, not per se.

Q. Have you ever conducted any clinical trials involving treatment of memory loss or cognitive decline?

A. Never as the primary study focus.

Q. Have you ever conducted any clinical trials examining how a protein is digested in the human body?

A. No.

Q. Have you ever conducted any clinical trials involving the gut-brain access?

A. Arguably, yes. We conducted studies of probiotics and were looking at potential systemic effects at least once, possibly twice. So the gut-brain access --

Q. When you say at least once or twice, are you referring to one or two studies?

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1 to recommend that universally. Whether or not you can
2 get everybody to do it is another story.

3 **Q. I would like to move on to the SUR analysis.**
4 **Is SUR an econometric model?**

5 A. It can be used in econometrics. I don't know
6 that that is the limitations of its use. Can it be an
7 econometric model? Is that what you are asking or did
8 it originate as an econometric model?

9 **Q. I understand your point. I think I can move**
10 **on, actually. And just to be clear for the record,**
11 **when I say SUR, I'm referring to the seemingly**
12 **unrelated regressions model.**

13 A. Yeah, I recognized that as opposed to suddenly
14 getting more formal with me.

15 **Q. In your opinion is SUR a method for correcting**
16 **for multiplicity?**

17 A. That's not my understanding, no.
18 (Katz Deposition Exhibit Number DK-14 was
19 marked for identification.)

20 BY MS. SOBERATS:

21 **Q. I have just revealed a new exhibit which has**
22 **been marked as Exhibit DK-14. This is titled**
23 **Exhibit B, Madison Memory Study: An Expanded Analysis.**
24 **And the authors are J. Howard Beales, III, Janet Liang,**
25 **Ph.D., and Robert Fenili, Ph.D., and it is dated**

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1 **July 18, 2019. Have you seen this document before?**

2 A. I have.

3 **Q. And the seemingly unrelated regression analysis**
4 **that you referred to in your report is contained within**
5 **this paper, correct?**

6 A. Yes, this was the reference. This and direct
7 conversation with Dr. Beales.

8 **Q. Did you ever have discussions with Dr. Beales**
9 **about the SUR analysis outside presence of counsel?**

10 A. No.

11 **Q. Can you turn to page 5 of this paper, Exhibit**
12 **DK-14. And there are two tables listed here, Table 2.1**
13 **and Table 2.2. And they report F values. Do you see**
14 **that?**

15 A. Yes.

16 **Q. What is an F test in the context of this paper?**

17 A. I profess no specific expertise in this
18 analytical method. But the statistic in this case, the
19 F statistic in the case of T tests, T statistic is
20 essentially some critical ratio of effect that is used
21 as the basis to determine statistical significance. So
22 with any given analytical test, you generate some
23 quantity. It may relate to error terms. It may relate
24 to the primary effect terms. It may relate to a ratio
25 of observe to expected as in chi-square testing. There

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1 are many different test statistics across the expanse
2 of hypothesis and they'll take many different numerical
3 forms. So the F statistic is one of those. It is
4 apparently the one that emanates from seemingly
5 unrelated regression, which is a technique I have never
6 used and do not know intimately.

7 And then that statistic is interpreted in light
8 of the analysis run, which usually involves things like
9 degrees of freedom to generate the threshold of
10 statistical significance.

11 **Q. Now -- were you done?**

12 A. I'm sorry, I was going to say the associated
13 statistical significance is in the column in both Table
14 2.1 and 2.2.

15 **Q. That's Pr less than F column?**

16 A. Probability, that's right.

17 **Q. And do you agree that the F values reported in**
18 **these two tables do not indicate whether Prevagen**
19 **outperforms placebo or vice versa?**

20 A. I would have to spend a lot more time working
21 on the details of these tables. I think, frankly, they
22 are quite abstruse. We see a whole host of
23 statistically significant test statistics here. So we
24 would have to spend time attempting to interpret that.
25 I can't give you an answer.

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1 **Q. Do you agree that you would need to assess the**
2 **individual Cogstate task to determine the magnitude of**
3 **the treatment effect for each task?**

4 A. Do I agree that you would need to study a given
5 task to determine the magnitude of treatment effect for
6 that specific task?

7 **Q. Yes.**

8 A. That makes sense, sure.

9 **Q. Let's go back to your report. This is**
10 **Exhibit DK-1. And I would like you to turn to page 18**
11 **of the PDF, which is page 16 of your report. I would**
12 **like you to turn to paragraph 35. Here you state, "We**
13 **have also reviewed the 'seemingly unrelated regression'**
14 **analysis. That analysis based on the full array of**
15 **cognitive measures produces decisively significant**
16 **results for those study participants without overt**
17 **cognitive impairment." Do you see that?**

18 A. I do.

19 **Q. And you relied upon the SUR analysis reported**
20 **in Exhibit DK-14 to reach that opinion, correct?**

21 A. And additional guidance from Dr. Beales to help
22 me understand it.

23 **Q. What guidance from Dr. Beales did you receive**
24 **to help you understand this?**

25 A. Our discussions were about the general utility

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1 of the method, what it was used to do. It was
2 certainly not a tutorial in how to conduct it
3 independently, but why he did it, why he thought it was
4 relevant, what results he, as an expert in the method,
5 thought it produced. I was guided in this particular
6 matter by his expertise.

7 **Q. Would you have been able to reach the opinion**
8 **you express here without speaking with Dr. Beales?**

9 A. A related conclusion just by reading the paper
10 that this enhanced the conviction that there was an
11 important therapeutic effect by aggregating across
12 components of the Cogstate, but I think somewhat less
13 emphatic than stated here because, again, I received
14 additional insights directly from the source that
15 helped to inform my determination.

16 **Q. When you spoke with Dr. Beales, did you review**
17 **any other documents related to his SUR analysis?**

18 A. Not that I recall.

19 **Q. Do you agree that this SUR analysis is a post**
20 **hoc analysis of the Madison Memory Study data?**

21 MR. CASTELLO: Objection.

22 THE WITNESS: I think that's difficult to
23 answer, because as you noted earlier today, there's
24 reference to the Cogstate battery of tests, and if we
25 want to get the terminology just right, we'll have to

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1 go back to the protocol document again. But there's
2 reference to the Cogstate software and there is no
3 explicit mention in the protocol of using only one
4 component of the Cogstate battery of tests. By
5 implication, then, one presumes you are going to use
6 them all. And that begs the question how are you going
7 to put them together. Admittedly, the protocol didn't
8 tell us what analytical technique would be used to
9 aggregate those component measures into the single
10 parent measure. But there certainly was at least the
11 suggestion that the single parent measure was of
12 interest.

13 BY MS. SOBERATS:

14 **Q. And scrolling back to page 1 of Exhibit DK-14,**
15 **which contains the SUR analysis, you see that it's**
16 **dated 2019, correct?**

17 A. I see that.

18 **Q. And so this analysis was conducted after the**
19 **data for the Madison Memory Study was examined,**
20 **correct?**

21 A. I don't recall the exact date the data were
22 examined. I don't know that I was involved in that,
23 but that's my understanding, yes, this was after.

24 **Q. If you can scroll back to your initial expert**
25 **report, that's Exhibit DK-1, and I would like you to**

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1 **scroll to page 28 of the PDF, which is page 26 of your**
2 **report, and if you could navigate to paragraph 61.**

3 A. I'm actually seeing that on page 27.

4 **Q. Just a moment. Okay. In paragraph 61, you**
5 **write, "Thus, the expected movement in one relative to**
6 **the other would not be an independent measure but a**
7 **confirmatory one. Similarly, measures of different**
8 **dimensions of cognitive function are likely to be**
9 **highly correlated. The 'seemingly unrelated**
10 **regression' approach is a more appropriate method to**
11 **deal with related measures as opposed to the Bonferroni**
12 **correction." Is it your opinion that SUR and the**
13 **Bonferroni correction are mutually exclusive**
14 **statistical techniques?**

15 A. No, not within the context of the given study.
16 No, rather the opposite. It's my impression they do
17 very different things.

18 **Q. And what issue does the Bonferroni correction**
19 **account for?**

20 A. It's a correction for multiplicity, testing
21 multiple hypotheses or using multiple independent
22 outcome measures in the same study. I won't embellish,
23 but I certainly could imagine a study that would
24 warrant something like a SUR analysis and a Bonferroni.

25 **Q. Thank you. If you could turn back to Exhibit**

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1 **DK-14, and scroll to page 2 of that exhibit which is**
2 **also -- page 2 of the PDF, which is also page 2 of the**
3 **exhibit, in the first sentence of section 2 which is**
4 **titled Mixed-Effect Seemingly Unrelated Regression**
5 **Model, the author states, "In previous analyses, the**
6 **nine measures of cognitive efficacy were analyzed**
7 **separately for each group. These tests were done under**
8 **the assumption that each measure was independent of**
9 **other measures." Do you see that?**

10 A. I do.

11 **Q. Do you agree that in prior analyses of the**
12 **Madison Memory Study, the nine Cogstate measures were**
13 **analyzed separately for each subgroup?**

14 A. They were analyzed separately, yes.

15 **Q. And do you agree that in prior analyses of the**
16 **Madison Memory Study, the researchers assumed each of**
17 **the nine Cogstate measures were independent of the**
18 **other measures?**

19 A. I don't have any basis to reach that
20 conclusion.

21 **Q. Going back to your expert report, Exhibit DK-1,**
22 **I would like you to turn to page 18 of the PDF, which**
23 **is page 16 of your report. And if you could navigate**
24 **to paragraph 36, here you state, "The analysis also**
25 **shows a dose-response curve seen for the full array and**

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1 **for many of the individual test components of that**
2 **array." Do you see that statement?**

3 A. I do.

4 **Q. What do you mean by dose-response curve in this**
5 **context?**

6 A. Generally a greater effect with increased
7 exposure to the treatment, in this case, Prevagen. So
8 for example, if you are looking at curves to represent
9 treatment response versus response in a control group,
10 hit those curves splay over time, and that would be
11 consistent with a dose response. Obviously, another
12 expression of this would be a study that willfully
13 tests different doses of a given compound. That was
14 not done here.

15 MS. SOBERATS: Can we go off the record for a
16 moment.

17 THE VIDEOGRAPHER: We are going off the record
18 at 5:00 p.m.

19 (A recess was taken.)

20 THE VIDEOGRAPHER: We are going back on the
21 record at 5:13 p.m.

22 BY MS. SOBERATS:

23 **Q. Dr. Katz, are you rendering an opinion about**
24 **whether Quincy has sufficient evidence to substantiate**
25 **its advertising claims?**

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1 MR. CASTELLO: Objection.

2 THE WITNESS: No, not specifically.

3 BY MS. SOBERATS:

4 **Q. Do you consider yourself an expert in the AD8**
5 **questionnaire?**

6 A. No.

7 **Q. Do you consider yourself an expert in**
8 **neuropsychology?**

9 A. No.

10 **Q. Do you consider yourself an expert in cognitive**
11 **impairment?**

12 MR. CASTELLO: Objection.

13 THE WITNESS: I'm tempted to go with I hope
14 not. You know, it's a relevant consideration for
15 anyone practicing internal medicine. So I don't have
16 dedicated expertise in that area. I have, if you will,
17 the generalist's expertise. It's a condition I need to
18 address or needed to address as a clinician.

19 BY MS. SOBERATS:

20 **Q. And do you consider yourself an expert in**
21 **memory?**

22 MR. CASTELLO: Objection.

23 THE WITNESS: I don't really know how to
24 interpret that. I understand the importance of it, the
25 impact it has on patients, and once again, it falls or

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1 rather fell within my clinical purview. But I'm not
2 someone who has devoted a career to the study of
3 memory.

4 BY MS. SOBERATS:

5 **Q. Do you consider yourself to be an expert in**
6 **statistics or biostatistics?**

7 A. More than many, less than some.

8 **Q. Going back to Exhibit DK-14, I would like you**
9 **to turn to page 5 of this exhibit. The very first**
10 **paragraph on that page states, "There are no**
11 **statistically significant differences between the**
12 **treatment and control groups in the time pattern of**
13 **score improvements (Model x Arm x Time)." Do you see**
14 **that?**

15 A. I do.

16 **Q. I'm trying to understand how that statement is**
17 **consistent with your statement that there is a**
18 **dose-response curve according to this analysis. I read**
19 **those two statements to be contradictory. Can you**
20 **explain how there's evidence of a dose-response curve**
21 **in light of this statement that there are no**
22 **statistically significant differences between the**
23 **treatment and control groups in the time pattern of**
24 **score improvements?**

25 A. What I interpret this to mean is that time did

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1 not alter the relationship between the treatment arm
2 and the other elements of the model. So the general
3 slope of change was established by the particular
4 treatment. But without looking at specific curves and
5 getting into details here, to me it begs questions
6 about the slope of change. But this is what it
7 indicates, that there isn't a meaningful change in the
8 slope of the curves.

9 So for example, if you had a treatment effect
10 which was modest but consistent for some period of
11 time, a month, six weeks, and then suddenly took a
12 dramatic departure and the pace of improvement rapidly
13 accelerated or decelerated, there would be an
14 independent effect of time on the slope of the curve.
15 This statement to me indicates that that was not
16 observed.

17 **Q. What information -- moving on to another topic,**
18 **you discussed Aduhelm and its approval in your rebuttal**
19 **report. I want to ask you a few questions about that.**
20 **What information did you review in preparing your**
21 **statements relating to Aduhelm for your expert rebuttal**
22 **report?**

23 A. Little other than the mainstream media coverage
24 of FDA decisionmaking in reversals. My primary source,
25 since this was not until recently an FDA-approved

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1 CERTIFICATION OF REPORTER
 2 DOCKET/FILE NUMBER: 1:17-cv-00124-LLS
 3 CASE TITLE: FTC and THE PEOPLE OF THE STATE OF NEW
 4 YORK v. QUINCY BIOSCIENCE HOLDING COMPANY, INC., et al,
 5 DATE: OCTOBER 20, 2021

6
 7 I HEREBY CERTIFY that the transcript contained
 8 herein is a full and accurate transcript of the notes
 9 taken by me at the hearing on the above cause before
 10 the FEDERAL TRADE COMMISSION to the best of my
 11 knowledge and belief.

12 DATED: 10/27/2021

13
 14
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 16
 17 s/Deborah Wehr
 18 DEBORAH WEHR, RPR
 19
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 21
 22
 23
 24
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1 WITNESS: DAVID KATZ, M.D., MPH
 2 DATE: OCTOBER 20, 2021
 3 CASE: FTC v. QUINCY BIOSCIENCE, ET AL.
 4 Please note any errors and the corrections thereof on
 5 This errata sheet. The rules require a reason for any
 6 Change or correction. It may be general, such as "To
 7 Correct stenographic error," or "To clarify the
 8 Record," or "To conform with the facts."
 9 PAGE LINE CORRECTION REASON FOR CHANGE

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1 CERTIFICATE OF WITNESS

2
 3 I hereby certify that I have read and examined
 4 the foregoing transcript, and the same is a true and
 5 accurate record of the testimony given by me.

6 Any additions or corrections that I feel are
 7 necessary, I will attach on a separate sheet of paper
 8 to the original transcript.

9 I hereby certify, under penalty of perjury,
 10 that I have affixed my signature hereto on the date so
 11 indicated.

12
 13
 14
 15 DATED: _____
 16 DAVID KATZ, M.D., MPH
 17
 18
 19
 20
 21
 22
 23
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 25